

6. (Amended) The antenna apparatus according to claim 5, wherein:
one of said phase shift circuits which are coupled to said one of said antennas shifts phase of said radio waves so as to increase an impedance of said one of said antennas at the resonance frequency of the other one of said antennas.

9. (Amended) A portable wireless communication apparatus having an antenna apparatus for receiving or transmitting radio waves, said antenna apparatus comprising:
a plurality of antennas having different resonant frequencies; and
a plurality of phase shift circuits for shifting phase of said radio waves, wherein
feed points of said plurality of antennas are connected to a radio circuit via said plurality of phase shift circuits, respectively,
whereby each of said antennas is operable to receive or transmit said radio waves at a different frequency.

REMARKS

It is submitted that these claims, as originally presented, are patentably distinct over the prior art cited by the Examiner, and that these claims were in full compliance with the requirements of 35 USC §112. Changes to these claims, as presented herein, are not made for the purpose of patentability within the meaning of 35 U.S.C. §101, §102, §103, or §112. Rather, these changes are made simply for clarification and to round out the scope of protection to which Applicant is entitled.

Claims 3, 4, 7, 8, and 10 and amended claims 1, 2, 5, 6, and 9 are in this application.

In the Office Action, the Examiner rejects claims 1-10 under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 4,072,956 to Provencher or U.S. Patent No. 5,281,974 to Kuramoto et al.

Amended independent claim 1 recites in part: “a pair of antennas having **different** resonant frequencies...whereby each of said antennas is operable to receive or transmit said radio waves at a **different** frequency.” (Underlining and bold added for emphasis.)

In explaining the above 102(b) rejection with regard to Provencher, the Examiner apparently asserted that elements 32, 34 are the same as the above feature of claim 1. It is respectfully submitted that radiating elements 32, 34 of Provencher appear to operate at the same frequency. That is, Provencher relates to a phased array antenna (column 1, lines 6-11) which appears to include a plurality of elements each being used at the same frequency.

Accordingly, since Provencher as applied by the Examiner (hereinafter “Provencher”) does not disclose “a pair of antennas having **different** resonant frequencies...whereby each of said antennas is operable to receive or transmit said radio waves at a **different** frequency” as in amended independent claim 1, it is believed that claim 1 is distinguishable from Provencher. For similar reasons, it is also believed amended independent claims 5 and 9 are also distinguishable from Provencher.

In explaining the above 102(b) rejection with regard to Kuramoto, the Examiner apparently referred to Figures 5 and 6 of Kuramoto and asserted that elements 131', 132' are the same as the above feature of claim 1. It is respectfully submitted that the portion of Kuramoto relied upon by the Examiner (hereinafter “Kuramoto”) does not disclose “a pair of antennas

having **different** resonant frequencies...whereby each of said antennas is operable to receive or transmit said radio waves at a **different** frequency” as in amended independent claim 1. In fact, Kuramoto does not appear to mention any frequency or frequencies with regard to elements 131’, 132’. That is, although Kuramoto relates to an antenna device for controlling a direction of a radio wave (column 1, lines 9-10) which includes a plurality of antenna elements such as 131’, 132’ (column 8, lines 30-33), such antenna elements appear to cumulatively act as a single antenna.

Accordingly, since Kuramoto as applied by the Examiner does not disclose “a pair of antennas having **different** resonant frequencies...whereby each of said antennas is operable to receive or transmit said radio waves at a **different** frequency” as in amended independent claim 1, it is believed that claim 1 is distinguishable from Kuramoto. For similar reasons, it is also believed that amended independent claims 5 and 9 are also distinguishable from Kuramoto.

Accordingly, it is believed that amended independent claims 1, 5, and 9, along with claims 2-4, 6-8, and 10 dependent therefrom, are distinguishable from either Provencher or Kuramoto.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned **“Version with markings to show changes made.”**

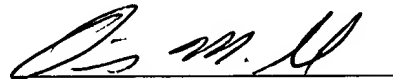
It is to be appreciated that the foregoing comments concerning the disclosures in the cited prior art represent the present opinions of the Applicant’s undersigned attorney and, in the event, that the Examiner disagrees with any such opinions, it is requested that the Examiner indicate where, in the reference or references, there is the basis for a contrary view.

In view of the foregoing amendments and remarks, it is believed that all of the claims in this application are patentable over the prior art, and early and favorable consideration thereof is solicited.

Please charge any fees incurred by reason of this response and not paid herewith to Deposit Account No. 50-0320.

Respectfully submitted,
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Version with markings to show changes made

Please amend claims 1, 2, 5, 6, and 9 by rewriting the same to the following:

--1. (Amended) The antenna apparatus for receiving or transmitting radio waves [at two different frequencies], comprising:

a pair of antennas [antenna elements] having different resonant frequencies, and
a pair of phase shift circuits for shifting phase of said radio waves, wherein
feed points of said pair of antennas [antenna elements] are connected to a radio circuit via
said pair of phase shift circuits, respectively,

whereby each of said antennas is operable to receive or transmit said radio waves at a
different frequency.--

--2. (Amended) The antenna apparatus according to claim 1, wherein:

one of said phase shift circuits which are coupled to said one of said antennas [antenna
elements] shifts phase of said radio waves so as to increase an impedance of said one of said
antennas [antenna elements] at the resonance frequency of the other one of said antennas [antenna
elements].--

--5. (Amended) The antenna apparatus for receiving or transmitting radio waves [at a plurality
of frequencies], comprising:

a plurality of antennas [antenna elements] having different resonant frequencies; and
a plurality of phase shift circuits for shifting phase of radio waves, wherein
feed points of said plurality of antennas [antenna elements] are connected to a radio
circuit via said plurality of phase shift circuits, respectively,

whereby each of said antennas is operable to receive or transmit said radio waves at a different frequency. --

--6. (Amended) The antenna apparatus according to claim 5, wherein:

one of said phase shift circuits which are coupled to said one of said antennas [antenna elements] shifts phase of said radio waves so as to increase an impedance of said one of said antennas [antenna elements] at the resonance frequency of the other one of said antennas [antenna elements].--

--9. (Amended) A portable wireless communication apparatus having an antenna apparatus for receiving or transmitting radio waves [at a plurality of frequencies], said antenna apparatus comprising:

a plurality of antennas [antenna elements] having different resonant frequencies; and
a plurality of phase shift circuits for shifting phase of said radio waves, wherein
feed points of said plurality of antennas [antenna elements] are connected to a radio circuit via said plurality of phase shift circuits, respectively,

whereby each of said antennas is operable to receive or transmit said radio waves at a different frequency.--